



Y-12 BULLETIN

A NEWSPAPER BY AND FOR EMPLOYEES OF CARBIDE AND CARBON CHEMICALS CORPORATION IN Y-12

Volume 2, No. 42

OAK RIDGE, TENNESSEE

Tuesday, October 19, 1948

Lack Of Control Makes Security Need Important

A short three years has passed since the atomic blasts at Nagasaki and Hiroshima revealed that man had developed the means of destroying himself. Those and subsequent explosions of atomic weapons have demonstrated that atomic warfare presents a dreadful menace to the human race and that the eventual benefits of peacetime use of atomic energy cannot be enjoyed if there is no one left to enjoy them.

International Controls Stalled

The continuous efforts of the United States to effect a system of international controls of the use of atomic energy is evidence of the policy of the nation to make this great discovery available for the benefit of all mankind. However, two years or more have passed since the United Nations began studying the problem and almost no progress has been made.

Therefore, the United States has been placed in the position of having to continue the manufacture of more and better atomic weapons and jealously guard its atomic energy secrets.

It is believed that because of the acceptance of security regulations by persons connected with the United States atomic energy program that this country still has a monopoly on secret processes used in manufacture of the atomic bomb. However, it also is recognized that this monopoly very probably is of a temporary nature. Secrecy Must Be Maintained

Therefore, security authorities of the Atomic Energy Commission (Continued on Page 3)

10 Suggestions By Employees Are Accepted By Company

Ten more suggestions for the improvement of plant efficiency submitted by nine Y-12 employees have been accepted by the Company.

Two proposals by J. H. Stone, Dept. A15N, were among the accepted suggestions. His suggestions were No. 61270 and No. 61684.

Other employees whose suggestions were accepted, with their departments and suggestions numbers include D. W. Foster, A12G, 64238; T. A. Williams, A12M, 62615; T. L. McCrary, A14N, 64345; A. R. Payment, B12H, 64195; R. L. Stanfill, B12H, 64205; Willie Stephens, B12H, 61687; L. E. Wilson, H12L, 64377; and C. A. Bolinger, H12L, 64387.

Institute To Give Four More Courses In Radioisotope Work

The Oak Ridge Institute of Nuclear Studies will offer four more courses in the techniques of using radioisotopes, beginning October 25, it has been announced by Dr. Ralph T. Overman, director of the radioisotope training program of the Institute. The Institute gave three such courses during the past summer and more than 250 research workers, university professors and doctors applied for the openings.

The new courses to be presented and the priority of personnel to attend follows:

October 25 — Industrial Laboratories.

January 3, 1949 — Government Laboratories.

February 14, 1949 — Medical Personnel.



Y-12 Photos By Vince Moore

"LET'S PUT Y-12 OVER THE TOP REAL QUICK," IS THE theme of the chat Foreman R. D. Ellingson is having with Martha Beals over the Community Chest campaign, which opened in the plant last week. Both are in Dept. B12H.

Chest Drive In Y-12 Seen 'Over The Top' Early As First Campaign Reports Encouraging

Y-12 employees last week began to cheerfully dig down in their jeans and sign pledge cards for support of the 1948 Oak Ridge Community Chest drive that was officially launched last Thursday. With the campaign machinery set up in smooth style, it is hoped that the drive can be wound up in Y-12 to coincide with the Oak Ridge campaign next Saturday, October 23.

Early Reports Encouraging

Early reports on campaign progress last Friday morning indicated that Y-12 would go "over the top" before many days have passed. Some small departments that completed their drive a few hours after receiving pledge cards promptly reported 100 per cent participation.

Pledge cards have been distributed by Line Supervision to every employee in the plant. Those hourly and weekly paid employees wishing to have their contributions taken out by payroll deductions may do so with the deductions made over a period of two months, beginning with the first pay check distributed in November. Monthly paid employees desiring to have their contribution deducted may have the sum taken out of the November 26 pay check.

Line Supervision and the plant coordinating committee headed by H. O. Ramey, Superintendent of the Employment Department, is stressing to all employees that the 1948 Community Chest budget of \$58,070.91 represents the needs for the coming year of vital and worthy community projects. The funds allocated to each Red Feather agency are carefully checked by the board of directors of the Community Chest, composed of 24 representative citizens of Oak Ridge, which has reviewed the needs of each organization before appealing to the citizenry for support.

Dr. C. E. Larson, Y-12 Superintendent, is chairman of the Community Chest drive in the plant and Ramey is co-chairman. Other members of the coordinating committee.

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GIVE --



Give Enough!

Y-12 Exhibit To Be Included In 'Man And The Atom' Show Opening In Oak Ridge Saturday

The Atomic Energy Commission exhibit, "Man And The Atom," the feature attraction of the recent New York Golden Jubilee Exposition, will be presented in Oak Ridge for eight days, beginning Saturday, October 23, to give residents of the Atomic City and East Tennessee an opportunity to view the display that was seen by hundreds of thousands of persons in New York.

Three of the leading exhibits in the show will be those of Y-12, K-25 and the Oak Ridge National Laboratory, demonstrating the fundamental principles of the processes used in the Oak Ridge installations. The Y-12 exhibit demonstrates by mechanical analogy the electromagnetic process in use here. The exhibit separates steel balls of two different weights by dropping them through the field of a permanent magnet. The lighter balls are deflected more than the heavier balls, showing the analogy between Uranium 258 and Uranium 238 behavior in a magnetic field.

Text Explains Operation

In the exhibit un-ionized particles are represented by non-magnetic balls and therefore not deflected and a brief text on the side of the booth explains the procedure.

When "Man And The Atom" is placed on display in Oak Ridge, the installation and operation of the show will be done mostly by employees of the three Carbide plants here. In the New York show the Y-12 exhibit was attended by Leo Hemphill, Dept. A13W; C. D. Susano, Dept. H12D; John Harding, Dept. H12L; and George H. Linder, Dept. A13W.

The AEC show will be staged in a new warehouse recently completed just west of the Elza Gate and admission will be free. To encourage attendance by persons living outside Oak Ridge both Elza and Edgemore gates will be open to the public during show hours, with no passes required. Proper traffic controls and ample parking space for the thousands of visitors expected will be provided.

Schedule For Exhibit

The schedule for the exhibit follows:

Saturday, October 23 and Sunday, October 24, 2 to 10 p. m., general public.

Monday, October 25 through Friday, October 29, 2 to 5 p. m. for school students and 7 to 10 p. m. for the general public.

Saturday, October 30, 2 to 10 p. m., general public.

The exhibit, in addition to the Carbide display, will include the fundamental concepts of the operations of the Hanford, Wash., (Continued on Page 3)

Seminar Will Hear Susano At Session

C. D. Susano, of Dept. H12D, will lead the session scheduled for tomorrow by the Y-12 Seminar on Research Techniques in place of Dr. A. S. Householder, of the Oak Ridge National Laboratory, who will be unable to attend because of previous commitments. Dr. Householder originally was scheduled to hold the third of four sessions on the subject of Curve Fitting at the October 20 meeting and is expected to resume his leadership of the seminar sessions at the next scheduled meeting November 3.

Meeting Held In Cafeteria

The seminar session tomorrow will be held in the west end of the Y-12 cafeteria from 3 p. m. to 4:30 p. m.

Susano will discuss the topic of Nomographs at the seminar meeting tomorrow. He already has led one discussion on this subject and the talks will be resumed with all members of the seminar class being given an opportunity to actually construct a Nomograph during the class period.

Big Attendance Expected

As Nomographs are frequently used by Y-12 technical and scientific personnel in their work in the plant, a large attendance is expected at the seminar session tomorrow with possibly 200 being present.

The seminar sessions are scheduled to be held until the end of this year and a new schedule arranged then for 1949 meetings.

Y-12 Fire Department Votes Against Union Participation

In a National Labor Relations Board election in Y-12 last week, the Fire Department of the plant voted against having union representation. The election was held Monday, Tuesday and Wednesday, October 11, 12 and 13.

The Fire Department is to be complimented on maintaining its enviable record of 100 per cent participation in plant activities.

'What An Atom Is' To Be Shown At AEC Show On Atomic Energy

Atomic Energy is a fact of Nature. Abruptly, the world was made aware of this new power at Hiroshima, Japan—power contributed by the vast Oak Ridge plants. It ended World War II.

Its prudent use can make life happier, more secure and probably more abundant. It has proven useful to research in medicine, biology and agriculture and it is hoped that eventually this new force will prove useful in industry and even possibly to transportation and power.

Science and industry have teamed up to pry more secrets from the atom. The government is a partner in the effort. The welfare of the world and therefore of the United States and its people is the objective.

The next 50 years will give us many of the fruits of the release of Atomic Energy. Children of today will be helped by this new force if they face courageously the future problems which this new force brings with it.

The exhibit which will be presented at Oak Ridge, October 23-30 is intended to inform and entertain all who visit it. It is hoped it will help prepare the generations of tomorrow to meet realistically and wisely the problems of an Atomic Energy Age.

The exhibit will be dramatized by live demonstrations and forceful presentations such as:

What an Atom is.
What is meant by splitting the Atom.

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Fine Eggplant Grown In Y-12 Man's Garden



S. D. Fulkerson and Eggplant

The accompanying photograph might well be called "The Eggplant and I" by Stanley D. Fulkerson, Dept. H12L, who raised the succulent vegetable in his garden at 144 Outer Drive. The eggplant shown is 12 inches long, eight inches in diameter and is of the Burpee hybrid variety. It was grown on a plant of which the seeds cost two cents each and out of 15 seeds planted 10 plants grew to maturity. Each plant has produced at least a bushel of eggplant and are still going strong, Fulkerson reports.

East Tennessee does not have good eggplant producing soil and climate, Fulkerson said, but by planting the hybrid variety a crop can be grown. The soil must be well loosened and fairly heavily covered with manure and a moderate amount of 4-12-4 commercial fertilizer.

Fulkerson reports four results from his garden this season and is particularly proud of the eggplant and a strawberry crop.

Hospital List

The following Y-12 employees were patients at the Oak Ridge Hospital last week: John R. Radin, Dept. H12L; Earle E. Murray, Dept. A12W; Orla D. Liechty, Dept. A14N; Emily W. Blankenship, Dept. B12H.

People who aren't afraid to roll up their sleeves seldom lose their shirts.

Strictly Confidential..

Don Phillips, Dept. H12D, recently became a proud grandpaw. His daughter, Mrs. Jean Worley, formerly of Oak Ridge, now of Raleigh, N. C., gave birth to a bouncing five-pound baby girl . . . H. M. McLeod, newcomer to Dept. H12D and Oak Ridge, visited with his family at Sheffield, Ala. . . Herb Clinton and Victor Defenderfer seem to be jumping ahead of Santa this year by doing their Christmas shopping early . . . Tom Mackey, A. Palco and Dave Crouse entertained friends and relatives at a recent Whittle Springs party . . . West Lewis of Mississippi and Jim Flynn of Knoxville moved their families to Oak Ridge over a recent week end . . . Nick ZaBenco made a hurried trip to Owensboro, Ky., because of sickness in the immediate family . . . H. P. Kackenmaster and his wife with their little daughter, Cindaellen, took a hiking trip in the Smokies . . . Elizabeth Young is on the vacation list . . . Warren Grimes is back on the job after vacationing in Indiana . . . Y-12 employees who attended the Lily Pons concert in Knoxville, October 11, were Bill Hoover, George Nessel, Allen Westerdahl, son of George Westerdahl, L. O. Gilpatrick, C. D. Susano, all of Dept. H12D, and Dr. R. S. Livingston of Dept. H12E . . . Dorothy Daugherty returned recently from a vacation spent with relatives in Baltimore, Md.

June Nesser, Dept. B12A, and her husband made a week end trip to Chattanooga . . . Mary Lou Pate also took in the sights of Chattanooga during a recent week end . . . L. H. "Sky" and Joyce Barker are spending their vacation in New York City and Washington, D. C. . . H. J. "Shorty" Ratjen and family are entertaining guests from Flatbush, Brooklyn.

Andy Skritnansky, Dept. B12L, visited with his parents in Oliphant, Penn., and took a side trip to New York City . . . Ozella Ward spent a recent week end with her sister in Hopkinsville, Ky. . . Hazel Johnson returned recently from a vacation spent visiting her family in Nicholasville, Va., and during the latter part of the week she toured through Greeneville, Johnson City and Kingsport, Tenn.

Vacation time found George Leichsenring, Dept. A13W, and his family in Chicago visiting with George's parents.

C. A. McAlister, Dept. A19N, is back on the job after vacationing in Chattanooga and points of interest in Georgia . . . A speedy recovery wish is extended to Edith Stott, who is ill in the Fort Sanders Hospital.

D. H. Dinsmore, Dept. A21N, is dividing his vacation time between Oak Ridge and Dandridge, Tenn., spending most of his time fishing.

Ray Duckworth, Dept. H12L, and his wife were guests of Dan Carter, former Y-12er, in Norman, Okla., during a recent vacation . . . A speedy recovery is wished for John Radin, who is ill in the Oak Ridge Hospital . . . Oliver Yonts, Dept. H12L and his wife, Eloise, of Dept. A12P, spent their vacation visiting points of interest in

Florida and in Memphis, Tenn. . . C. B. Graham is visiting with his family in Peoria, Ill.

E. W. Palmer, Dept. A17N, is spending his vacation moving to his new farm near Oliver Springs.

Meta D. Butler, Dept. A16J, and her daughter, Betty Jo, Dept. A12J, are vacationing in Camden, Tenn. . . Winnie Miller, Dept. A12J, and some friends spent a recent week end at Kinzel Springs and also made a trip through the Smokies.

William Kinkleman, Dept. A14N, is back on the job after vacationing in New York City . . . B. W. Beckham is on the vacation list.

Leora Doss, Dept. B12H, attended a homecoming at her home in LaFollette recently. Madeline Acuff made a week-end trip to Louisville, Ky. . . Mildred Crass is back on the job after vacationing at her home in Oliver Springs.

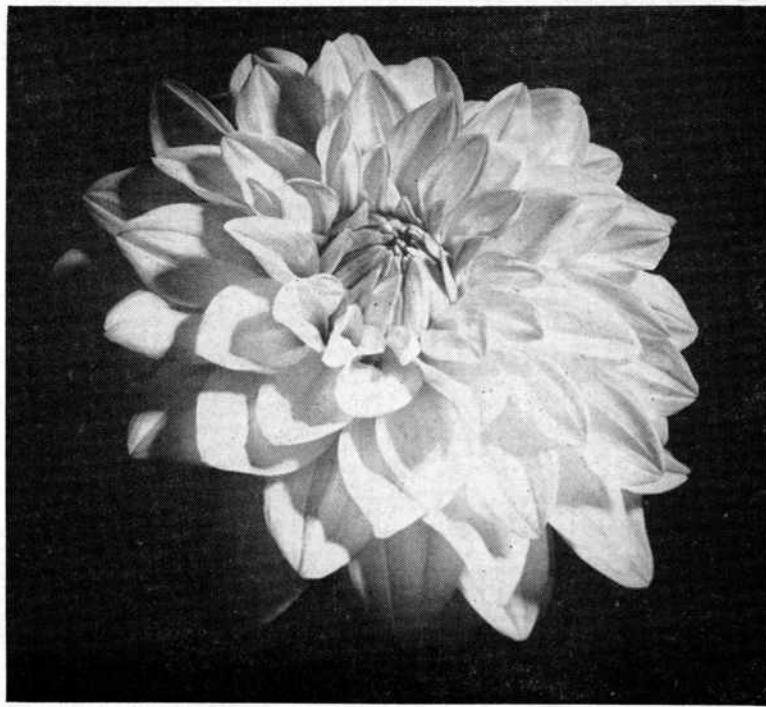
H. H. Hubbs, Dept. B12C, returned to work Monday after spending his vacation with relatives in Johnson City, Tenn. . . G. A. Strasser and his family returned recently after vacationing in Nashville . . . The department hopes to see Emma Henry, who is still on the sick list, back to work soon.

Danny Dimwit, that cute little character that manages to get into a peck of trouble by ignoring safety regulations, really is laid up this week. Rather, it is Danny's poppa, Gene Hill, Dept. B12L, who has been confined to his home because of illness for several days and unable to produce a Danny cartoon for this week. Gene says it wasn't one of Danny's misadventures that caused his illness but just an onslaught of influenza.

G. M. Andranigian, Dept. H12D, returned recently from a vacation spent in California. While there he looked up Elizabeth Cook, former Y-12er, who is now making her home in Los Angeles with her sister, Mrs. Catherine Livingston, and he also visited Nancy Doane's cousin, Eleanor Doane. During the latter part of his vacation he visited friends and relatives in his home town, Kingsboro. The accompanying picture was taken in front



of Clifton's famous cafeteria on Olive Street. Left to right are Elizabeth Cook, Andranigian and Mrs. Livingston.



"DAHLIA" IS THE TITLE OF THE ABOVE PICTURE which was made by Don Ross, Dept. H12E, and judged as the winning black and white print in the Carbide Camera Club's October contest on flowers.

Ross Wins Camera Club Contest; Marks Y-12's Sixth Straight Win

Don Ross, Dept. H12E, won first prize in the Carbide Camera Club October print contest, and John Ramsey, Dept. H12D, captured second place for an about face from the September competition in which Ramsey took the top award and Ross settled for second place.



TURNER-FORBIS

Miss Barbara Forbis, of Knoxville, became the bride of C. O. Turner, III, Dept. A13W, at 6:30 p. m. October 16, at the home of Mrs. Paul Adams, 3708 Knox Lane, Knoxville, sister of the bride. The Rev. Mr. Sailor performed the ceremony.

The bride is the daughter of Mr. and Mrs. E. C. Forbis, of Knoxville. Turner is the son of C. O. Turner, Jr., of Memphis.

At her wedding the bride wore a gray dress with black accessories and a white orchid.

The bride was given in marriage by her father.

Mrs. Wanda Rucker, sister of the bride, was maid of honor. Eugene Church was best man.

A reception was held at Mrs. Adams' home following the ceremony.

Miss Forbis attended Central High School. The groom attended the University of Mississippi and the University of Tennessee, where he was a member of Kappa Alpha fraternity.

Following a honeymoon, the couple will live in Knoxville.

Mrs. Gerdie McNeil, of King, Ky., is visiting in Oak Ridge with her daughters and sons-in-law, W. E. Davis, Dept. A23J, and his family and Thomas Crabtree, Dept. H12L, and his family . . . A speedy recovery is wished for W. T. Hays who is on the sick list.

Winning Print Showed Dahlia

Ross' print, entitled "Dahlia," was made by meter exposure on a Super Ironta B camera with Eastman Plus X film. He used Microdol for the development with Brovira silk paper. Ross toned the print with Edwal Magneta.

John Ramsey called his clever print on flowers, "Twin Cosmos."

Y-12 members of the club have captured all five of the monthly contests sponsored by the organization. Foster Calloway took the first three contests, followed by Ramsey and Ross.

Slide Contest In November

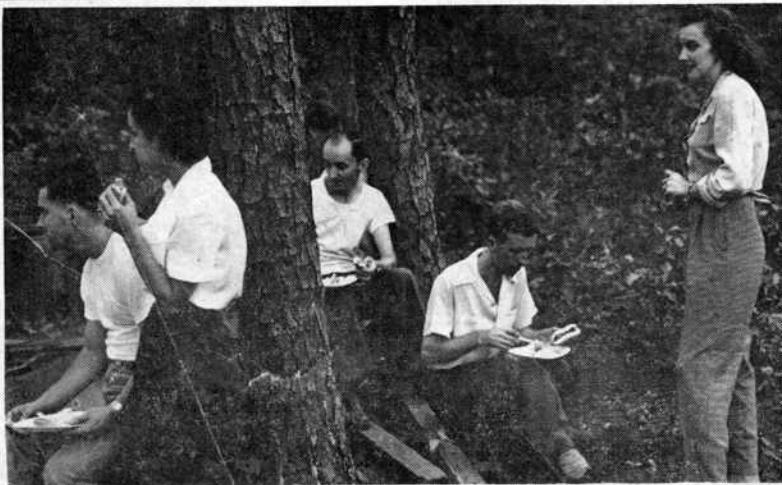
The November contest will be color transparencies on flowers. All slides entered in this contest must be in by November 2. They may be left at Taylor's Photo Shop or at the home of Virgil Haynes, 114 East Holston Lane.

The club's next meeting is scheduled for November 9 at 7:30 p. m. in the club headquarters at the Y-12 East Portal.



Two births were reported to Y-12 families at the Oak Ridge Hospital last week. Parents were Mr. and Mrs. Richard W. Woodard, a girl, October 7; Mr. and Mrs. George R. Arms, a girl, October 13.

Don't look for a gas leak with a lighted match. You'll probably find it but won't be able to tell other people about it.



PICTURED ABOVE AT A PICNIC HELD ON OCTOBER 2 at the Scarboro School picnic grounds are Y-12 employees from the Process Test Section of the Chemical Development Department. In the picture at left are Dick Lines and wife, Dolores; John Lachner; Homer Hunter and Mrs. Hunter, reading from left to

right. Sitting down to munch on their hot dogs in the center picture from left to right are Ted Higgins and Mrs. Higgins; Tom Tarwater and Jennie Pat Tatum; Dave Krause and Emma Russell; and Mrs. Dick Weichel. Bob Adams is shown roasting a wiener

at the picnic oven. In the picture at right, from left to right, are Mrs. Pete Kackenmaster and baby; Mrs. Herbert Clinton and daughter, Loretta Lee; Pete Kackenmaster; Mrs. Weichel and Dick Weichel. The pictures were taken by John Ramsey.



STRESSING THE PROPER USE OF SAFETY GLASSES by Y-12 employees, the Safety Department calls attention to the current Y-12 Photoposter displayed on calendars picturing employees who know the value of the protective equipment. From top to bottom the employees on the Photoposter are R. C. Winfree, Dept. A16N; Mary A. Roberson, Dept. B12L; Evelyn Frazier, Dept. B12C; Billy Boyd, Dept. B12C; Roy B. Roseberry, Dept. H12L; and George W. Carter, Dept. A16N.

New Department Leads Attendance Standing

Two new departments were formed in the Major League and one of them, Dept. A21N, Maintenance Services, topped the league for its first appearance with a perfect attendance mark for the week ending October 10.

Dept. A12S Gains Third

Dept. B12H, Refining, held onto the second place position for the second straight week with 1.1 per cent of its personnel absent. Refining was followed by Dept. A12S, Receiving Stores and Shipping, which rose from seventh place on the preceding report to third place on the present standing.

The other new department in the Major League is Dept. A20N, Field Maintenance, which gave a good account of itself by capturing the fourth place in the standing on its initial appearance.

Six Departments "All Present"

Six departments in the Minor League reported "all present" for the present reporting period. They are Dept. A12R, Cafeteria; Dept. A12L, Employment; Dept. A12T, Automotive Repair; Dept. M13P, Product Processing; Dept. B12A, Superintendents; and Dept. A15N, Experimental Process Equipment and Maintenance.

Dept. A12A, Janitors, dropped from the first place tie in the preceding's week's report to second place in the present reporting period with 1.5 per cent of its personnel absent. Third place in the Minor League was captured by Dept. A13S, Tools, with 1.76 per cent absent from its roll.

Record By Departments

The complete record of Y-12 absenteeism for the week ending October 10 by departments follows:

MAJOR LEAGUE			
Dept.	Percentage Absent	10-10-48	10-3-48
A12N	0.0	1	1
B12H	1.1	2	1
A12S	1.8	3	7
A20N	2.0	4	—
A17N	2.2	5	5
B13L	2.4	6	13
M12P	3.1	7	3
A12G	3.29	8	2
A13N	3.32	9	8
B12L	3.33	10	4
A16N	3.5	11	6
H12L	3.96	12	10
A14N	4.08	13	11
B12C	4.11	14	9
H12E	4.12	15	14
A12M	6.7	16	12
H12D	9.8	17	15

Group absentee percentage was 3.3 per cent, .3 per cent higher than the preceding week.

MINOR LEAGUE			
Dept.	Percentage Absent	10-10-48	10-3-48
A12R	0.0	1	—
A12L	0.0	1	1
A12T	0.0	1	1
M13P	0.0	1	1
B12A	0.0	1	2
A15N	0.0	1	5
A12A	1.5	2	1
A13S	1.76	3	12
A12W	1.81	4	6
A13T	2.22	5	8
A12D	2.22	5	10
A14J	2.3	6	4
B13C	2.5	7	1
M12S	2.70	8	7
A12N	2.72	9	3
A13W	4.5	10	13
A19N	6.7	11	9
A12P	11.7	12	11

Group absentee percentage was 2.2 per cent, .2 per cent higher than the preceding week.

The plant average for the week ending October 10, 1948, was three per cent, .3 per cent higher than the preceding week.

'What An Atom Is' Shown In Atomic Energy Exhibit

(Continued From Page 1)

What happens when an Atom is split.

The great effort required to develop Atomic Energy.

The basic operating principles of the gaseous diffusion and electromagnetic plants at Oak Ridge for concentration of U-235.

The Oak Ridge National Laboratory.

How Atomic Energy may bring the better life.

Radioisotopes and their beneficial uses.

The need for International Control of Atomic Energy.

OLD SOLDIERS NEVER DIE

Looking forward to the day when he can become a full fledged tenderfoot scout is James W. Smith who belongs to the Waterloo, Ore., Cub Scout pack. Smith, a Civil War veteran, celebrated his 106th birthday recently.

Hemphill Given Honor By State Jaycee Group

Interest shown in community affairs by a Y-12 employee has brought him designation as "Man Of The Quarter" in Tennessee by the state Junior Chamber of Commerce at a recent meeting in Nashville.

He is Leo Hemphill, Dept. A12W, who lives at 103 Glendale Lane. He is married and the father of three children.

Among the activities for which Hemphill was cited were included being general chairman of the Rededication Week observance climaxed

by the visit of the Freedom Train to Oak Ridge, being chairman of the Jaycee committee on future planning for Oak Ridge, work as member of the Jaycee house committee and his part in helping promote a carnival appearing in Oak Ridge for 17 days.

Outside of regular working hours in Y-12, Hemphill spent a total of 335 hours working on Jaycee projects. He was executive vice president of the Oak Ridge Jaycees last year and is a member of the board of directors this year.

Security Need Vital As Controls Lacking

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and Y-12 stress the absolute necessity of maintaining secrecy on all "restricted data," right down to the minutest of technical details, that could be of the slightest assistance to any aggressor nation in its efforts to manufacture atomic weapons. Likewise, new discoveries and new techniques must be safeguarded by all available means.

The secrecy and monopoly must be maintained until adequate international controls are obtained. Meanwhile the United States can maintain its lead in atomic energy development only if it continues to learn more and produce more than aggressor nations.

All Employees Must Cooperate

Every Y-12 employee's cooperation is needed to maintain this secrecy and monopoly and every employee must know the security requirements of his particular job. Any employee who is not thoroughly acquainted with these requirements, on which the security of his home and country may rest, is urged to immediately ask his supervisor for this information.

The Y-12 Security Office, North Portal, telephone 7125, is always ready to cooperate with and give security instructions to all employees.

Fire Alarm System Slated For Oak Ridge

Oak Ridge has taken another step toward maintaining its rating as having the best fire prevention program of any city in the nation in the annual contest conducted by the National Fire Protection Association and the National Board of Underwriters.

A new fire alarm system now is being installed throughout the city by the Tennessee Armature and Electric Company, of Knoxville, at a cost of \$289,396. Completion is expected within the next year.

The new system will include 263 numbered fire alarm boxes with an indicator at Fire Department headquarters which will show the exact location of the box from which the alarm is sent.

An auxiliary alarm system for approximately 55 buildings equipped with sprinkler systems is included in the work. Forty-eight master boxes on buildings with the sprinkler system will show the location of the set-off sprinkler head responsible for the alarm.

Some folks can resist everything but temptation.

Y-12 Exhibit Included In 'Man And The Atom'

(Continued From Page 1)

plants for the production of plutonium and the astounding mechanical "hands" developed by General Electric. The remote "hands" of the mechanical manipulator, which can perform feats impossible for human hands, were designed for handling of radioactive materials.

Other exhibits making up the show include:

MODEL OF A POSSIBLE POWER PLANT OF THE FUTURE—The Kellogg Corporation has developed a 10-foot animated model of a nuclear fueled stationary power plant typical of the type which may be expected in the future. Described as a NUEN (nuclear energy) reactor plant, the model includes a fuel processing and feed preparation unit, reactor, heat exchanger, gas turbine and generator.

THE FIRST "EXPLOSION" IN MINIATURE OF AN ATOMIC BOMB—On January 25, 1939, Columbia University scientists demonstrated the first release of atomic energy from uranium fission. A replica of this experiment will be featured in a dynamic and spectacular manner.

SCALE MODEL OF THE GASEOUS DIFFUSION SEPARATION METHOD FOR U-235—The original scale model of the method developed at Columbia University for separating U-235 from U-238 will be on display. The K-25 gaseous diffusion plant is based on this original conception.

ATOM SMASHERS—There are three classic types of atom smashers, the Betatron, Cyclotron and Van de Graaf generator. All three have distinct jobs in the scheme of atom smashing. A live model of the Van de Graaf generator will be shown.

MINING AND REFINING OF PITCHBLLENDE—The story of atomic energy begins in the mine in the form of pitchblende ore containing radium, uranium and other metals. These ores are mined like coal. There will be two separate exhibits on this subject.

AERIAL VIEWS OF AEC INSTALLATIONS—A color motion picture of approximately four minutes' duration will show aerial views of the AEC installations in Oak Ridge.

INTERNATIONAL CONTROL—The exhibit will give a graphic and interesting presentation of the problem and hopes of international control.

RADIOLOGICAL DEFENSE IN ATOMIC WARFARE—An exhibit on radiological defense in atomic warfare is shown for the first time. The exhibit was prepared by the Civil Defense Planning Office of the Office of the Secretary of National Defense.

UNITED STATES ATOMIC ENERGY COMMISSION—This exhibit gives a description of the commission and its operations, including production plants, national research laboratories and the institutions participating in the national laboratory program, and the users of radioisotopes.

OAK RIDGE INSTITUTE OF NUCLEAR STUDIES—This exhibit shows the work pursued by 19 Southern universities participating in the activities of the Institute.

Organizations and companies participating in preparation of the exhibits include the Atomic Energy Commission, Columbia University, University of Chicago, Carbide and Carbon Chemicals Corporation, King Features, the Allis-Chalmers Manufacturing Company, the Brookhaven National Laboratory, the Gulf Oil Corporation, Life Magazine, General Electric Company, Kellogg Corporation, Mt. Sinai Hospital, New York; New York City Department of Hospitals, American Cancer Society, The National Military Establishment, American Red Cross, Montefiore Hospital, New York; Memorial Hospital, New York; Sloane-Kettering Institute, Veteran's Administration, U. S. Department of Agriculture, College of Physicians and Surgeons, Columbia University; Schenley Laboratories, the New York Times and the Office of National Defense.

Chest Drive In Y-12 Seen 'Over The Top' Early As First Campaign Reports Encouraging

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mittee include Pat Hamrick, Industrial Relations; R. R. Tippy, Manufacturing Offices; L. E. Parsons, Research and Development; J. H. Harmon, Engineering; Nelson Tibbatts, Maintenance; and W. S. Heron, Chemical.

Advance Gifts Are Received

The campaign in Oak Ridge was given its official "kick-off" last Wednesday night at the Ridge Recreation Hall when approximately 150 Chest workers gathered to discuss the campaign. It was announced that considerably more than 10 per cent of the goal had been reached with advance gifts, including a contribution of \$5,000 from Carbide and Carbon Chemicals Corporation. This contribution does not include the money to be raised in the plant drives.

The fact again is stressed that the costs of the Community Chest campaign are held to a minimum, as in the past. There is no paid campaign director nor paid workers of any kind and the entire campaign costs are for postage, promotional material, posters, printed material and similar items. It also is pointed out that there is to be no house-to-house canvass in the campaign and that the drive will be conducted entirely in the plant and business firms of the city. With the exception of one appropriation of only \$65 to the National Social Welfare Assembly, all of the Chest funds raised in Oak Ridge are to be spent in Oak Ridge.

The Community Chest budget of \$58,070.91 for the coming year includes the following items:

School lunches, \$7,500.
Boy Scouts, \$9,953.91.
Girl Scouts, \$11,979.50.

Hospitalization (for indigent persons not now provided for at the Oak Ridge Hospital), \$2,500.

National Social Welfare Assembly (1/12 of one per cent of total goal), \$65.

National Travelers Aid Association, \$120.

American Social Hygiene Association, \$100.

Crippled Children's Committee, \$6,500. (This item supplants the March of Dimes campaign previously held).

Dental Care Program, \$2,000.

Chest Administrative Office (including campaign), \$2,352.50.

Reserve Fund (including uncollected pledges), \$15,000.

Y-12 Man Appointed To Housing Group

Paul Pennington, of Y-12, has been appointed to the area housing committee, set up by the Oak Ridge American Legion Post No. 199, to assist veterans with their housing problems. A representative from each of the Carbide plants in Oak Ridge has been appointed on the committee.

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Permit No. 3

Three miles of roadway will be built in Oak Ridge as part of the long-range community development program. The project will include a new road to be built from a point on Scarboro Road near the site for the new entrance to Y-12 to a point on Oak Ridge Turnpike immediately south of New York Avenue. It will serve as an artery to Knoxville through Solway Gate from the Oak Ridge Turnpike and the eastern section of the town.